

What's Up MÄK

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VT MÄK @ 25

MÄK Celebrates 25 Years of Modeling and Simulation



We are proud to celebrate our 25th year delivering state-of-the-art networking, simulation, and visualization technology to meet your gaming, training and R&D requirements. As our customers' needs have evolved, so has our line of products and solutions. We are always improving what we offer, yet we never sacrifice the original values that we started with: a focus on effectiveness, flexibility and partnership.

We've always believed that effectiveness, flexibility and partnership can bring the world of simulation to the next level, and the fact that we're still here after a quarter-century means our customers have found great value in these as well.

That effectiveness and flexibility has allowed for the use of our simulation software in many different system configurations and an array of different fields. While our primary users are in the aerospace and defense industries, our products and services can help customers anywhere modeling and simulation is needed to train, plan, analyze, experiment, prototype, and demonstrate.

Partnership is incredibly important for us — since day one, we have espoused the concept of "The Engineer Down the Hall". We work with our customers every step of the way and provide support for their projects long after a purchase has been made, all the way through completion.

We've also developed engineering services, including training and consulting, product feature development, on-site support, and project assistance. We put the experience of MÄK's engineers to work for you to help solve your unique technical challenges, from the straight forward tasks to the most difficult requirements.

While it's fun to look back at how far we've come, we are even more excited about the amazing software we have in store for you on the horizon. For example, we've recently taken advantage of readily-available gaming technology to create even greater flexibility for our customers, who can now choose to incorporate more content or more performance based on their own preferences.

Help VT MÄK celebrate our 25th year! If you'll be at I/ITSEC, stop by our booth (#827) on December 2 at 4 p.m. for some refreshments and a chance to meet our team. You can also check out some of the powerful demos that will lay the groundwork for the next 25 years at VT MÄK. 🌟



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Get Ahead of the Game at I/ITSEC 2015

This is VT MÄK's 25th year serving the defense modeling, simulation, and training community. Join VT MÄK at I/ITSEC 2015, in **booth #827**, to learn about the latest trends in Modeling & Simulation and how to incorporate state-of-the-art technology into your training and experimentation environments. Our booth will feature a fantastic array of demonstrations that feature our products and solutions. You'll also find MÄK participating in dozens of booths across the show floor, presenting demonstrations in our partner's booths, supporting several companies with interoperability technology in Operation Blended Warrior, and embedded in many of our customers' demonstrations.

Demonstrations in the VT MÄK booth

Here it all comes together... This year we have several demonstrations that show how your customers can Get Ahead of the Game by integrating MÄK Products into training solutions.

First-Person Players

First-person players simulations demonstrate both flexibility and performance — Soldier, Air Vehicle, and Ground Vehicle. We have four player stations that we reconfigure as needed to play eleven different roles.

First Person Shooter — Four soldiers work together as a team to take out the enemy AI combatants controlled by a squad commander without killing the civilian bystanders.

Light Armored Vehicle #1 — Jump into a light armored vehicle equipped with CM Lab's Vortex physics and rumble over the Surobi Terrain by Simthetiq.

Light Armored Vehicle #2 — A brilliant illustration of our terrain agility, using a light armored vehicle on terrain brought to life by BDesign's use of Blueberry 3D

Fixed wing Jet — Climb into the cockpit of a fixed wing jet and strap on your seatbelt as you get a 360 degree immersion through an Oculus head-mounted display.



Command Staff Training

Four separate demos illustrate the effectiveness of CST:

Incident Management — Test your skills as a first responder in an intense emergency situation. Can your command skills overcome the challenge?

Thunder Run — Assist in evaluating 2 courses of action over a 12-minute exercise. Flee to safety or seize the initiative and occupy the objective.

Battle of Tehachapi Pass — Take control of the Blue forces and test your command strategies against an attack by the Red forces, utilizing more than 100 types of units in 2 hours of simulated time.

ECOSim — Engage in company operations including ISR look-ahead training, and utilize DI-Guy ISR to provide sensor views from surveillance and reconnaissance assets.



Product Demonstrations

Come see our experts who lead the software development and let them show you the latest updates:

Link, Web and Mobile — Link now supports Java! Learn from our experts how our Link products can save you time and improve your networking performance. See interoperability in action in Operation Blended Warrior.

Simulate — Experience rich on-the-ground first-person scenarios and sensor mission modeling. Learn how to use group placement to quickly lay down units.

Visualize — Immerse yourself in brilliant 60Hz scenes. See how you can control game technology to render ground, maritime or air simulations.

Humans — Come see all the new content we've built for you. Learn how to not only construct amazing lifelike characters, but also how you can use photogrammetry to put your own faces on them.

Terrain — Ask us about the terrain you see in our demos, we've added capabilities to Streaming Terrain and taken Procedural Terrain to new levels of detail.

Demonstrations on the show floor

Digital Projection

Come see our VR-Vantage 60 HZ IG demo light up Digital Projection's 4K Laser Projector.

JRM Technologies

Visit the sensor experts at JRM Technologies and ask to see SensorFX and RadarFX SAR server.

OBW

Look for OBW signs all over the show floor. We'll be participating in each of the demos and many participants are connecting their simulations with VR-Exchange. Drop by our booth and we'll tell you how it all came about and what you can expect to see.

Events Inside the MÄK Booth

Birthday Party in MÄK booth #827

MÄK 25 Years Serving MS&T

Come celebrate 25 years of success and see what we're building for the future!

Wednesday 4:00 pm to 4:30pm, all are welcome

Events on the Show Floor

Innovation Showcase – booth #1180:

Building a Beautiful World: Using Blueberry 3D and VR-Forces to create content-rich terrains

Wednesday 10:00am, Jim Kogler, MÄK & Yoram Bentzur, BDesign

Events Inside the Rosen Center, Salon 1

Terrain Strategies – Tuning Tips & Tricks

Tuesday 9:00 – 9:45, Len Granowetter, VP Products & Solutions

Behavior Authoring – Complex Simulation made Easy

Tuesday 10:00 – 10:45, Nathan Kidd, VR-Forces Team Lead

SensorFx and RadarFx – Correlated Sensor Simulation

Tuesday 11:00 – 11:45, Jim Kogler, Director COTS products, Tim George, Senior Software Engineer 🌸

The All-New mak.com



Visualize
Beautiful Scenes — Informative Content MÄK's visualization suite lets you experience your simulation from every vantage point.

VR-Vantage IG
Generate visual output in a high-performance image generator — Designed by modeling & simulation experts for training and simulation projects.

VR-Vantage Stealth
Quietly observe a "big picture" understanding of the simulation while retaining an immersive sense of perspective.

SensorFX
Physically accurate sensors — model the physics of light in any wavelength to represent electro-optical, night vision, and infrared sensors.

RadarFX SAR Server
Synthetic aperture radar simulation and a SAR to your sensor package that correlates with your visual sensors, optical sensors, and computer-generated forces scenarios.

Beautiful Visual Scenes — Informative Visual Content
Let's visualize what we see in beautiful detail from every vantage point. MÄK's visualization suite lets you experience your simulation from every vantage point. Beautiful scenes, informative content, and a high-performance image generator designed by modeling & simulation experts for training and simulation projects.

Visualize Products
VR-Vantage IG: High-Performance Image Generator
VR-Vantage Stealth: Quietly observe a "big picture" understanding of the simulation while retaining an immersive sense of perspective.
SensorFX: Physically accurate sensors — model the physics of light in any wavelength to represent electro-optical, night vision, and infrared sensors.
RadarFX SAR Server: Synthetic aperture radar simulation and a SAR to your sensor package that correlates with your visual sensors, optical sensors, and computer-generated forces scenarios.

We're motivated to make things better and that includes our website. mak.com is a place that you go to find information about all of our product lines, important white papers and customer success stories. With this most recent update, we give you access to some great new content and present it in a way that is much more intuitive to navigate. We're developing a MÄK Community — and that begins with with your own member profiles. Your profile will now allow you to customize the emails you receive, access support resources, and engage in discussions on our forums. Product Capabilities are available on all product pages for easier access and there is now a Success section that details the ways customers use our software on a daily basis to solve the challenges they face. If you're proud of the simulation you've developed with us, [contact us](#) to promote your project in our Success section today! 🌸



Humans
Advanced human characters for simulation environments. Super realistic, fully rigged, easy to talk to characters.

DI-Guy SDK
The engine that puts human characters into the real-time visual systems used by 3D manufacturers, modeling & simulation companies, and custom integrators.

DI-Guy Scenario
Simplest authoring of human performance in your own specific world with correctly behaving, real-time, interactive characters.

DI-Guy Expressive Faces
Facial animation for realistic, up-close 3D human simulation. Lip synchronization, non-verbal cues, and positive expressions are all remarkably easy.

Person Specific Characters
Use intelligently to make your characters look just like your business! Our process reduces the time to make new characters — character profile integration.

DI-Guy Motion Editor
Kick, life, pose, motion, signal, dance, ... Make characters move like your people. Visualize motion data or use the editor to blend and interpolate or use locomotion.

Human characters that intelligently interact with your training simulation.
Human characters that intelligently interact with your training simulation. Human characters that intelligently interact with your training simulation. Human characters that intelligently interact with your training simulation.

MÄKer Spotlight: Rob Hamilton

Marketing and Communications Specialist



This month, we'd like to introduce you to Rob Hamilton, the newest member of the VT MÄK marketing team. By day, his responsibilities involve producing awesome, engaging content for MÄK (including the newsletter you are reading right now!). Prior to joining MÄK, Rob ran national book tours for a mid-sized book publisher and worked as a marketing specialist for a medical technology company. Rob received a Bachelor's Degree from the State University of New York at Albany in 2010, majoring in Communications and Political Science. Weird but true: Rob can quote the entire Blues Brothers movie from start to finish. By night, he can be found painting, writing, playing chess, obsessing over Porsche 911s, and mourning the (inevitably) poor performance of his beloved New York Knicks. We hope we've piqued your interest in getting to know the MÄK team! Stay tuned to our [blog](#) and [Twitter](#) to get the latest on MÄK happenings! 🌸